United States Department of Agriculture

Forest Service

Reply to 3460

Date 9/3/87

SUBJECT: 1987 Gypsy Moth Monitoring Results -- Monongahela National Forest

TO: Forest Supervisor, Monongahela NF

During 1987, the Forest Pest Management staff (FPM) conducted a gypsy moth survey on the Monongahela National Forest. This report provides the finding of our survey. However, our findings only present a partial picture of the gypsy moth status and trends. The Division of Plant Industry, WV Department of Agriculture and the Virginia Department of Agriculture have conducted similiar surveys on counties adjointing, and east of the Forest. We will share their findings with the Forest when available later this season.

The general design of our survey was like last year's. Traps were placed in areas indicated by timber staff personnel as areas where oak species dominated. These traps were placed in the same location with exception of some additions. Our staff surveyed areas in the Cheat, Potomac, and Greenbrier (north of US 250) RD's. Additional traps were placed by District personnel on the remaining Greenbrier, Gauley, Marlinton, and White Sulphur RD's. Our staff, in addition to Pheromone trap placement, placed 32 banding sites on the Cheat RD's to sample larvae and pupae. We plan to continue placing additional sites this fall.

Site locations for the 1987-86 monitoring surveys have been identified by a number and are presented on maps and enclosed with report (maps 1A-1F, 2A-2F). Sites have been highlighted to show different moth capture classes and their distribution within each Ranger District. Tables 1-6 summarize moth catches for 1987-86 by opportunity areas, while tables 7 & 8 summarize moth catches for each District and county on the Forest. Maps 3 & 4 show where other life stages and egg masses were detected. The date in Table 7 also has been charted for each RD to permit easy comparison of the frequency changes in male moth capture classes from 1986 to 1987.

The gypsy moth has increased it's presence on the Northern RD's with a 225% increase on the Cheat and a 34% increase on the Potomac RD's. Along with the increase in adult male moths, a breeding population has been confirmed on the Cheat RD in an area referred as 87M. Other egg masses have been found in the areas of Limestone Mt. and Hogback Ridge (Refer to Map 7). Other life stages have been detected under state banding site along Smoke Hole Road. on the Potomac RD (Refer to Map 8). In contrast the adult male moths were virtually nonexistent in the Southern RD's.

It is apparent that the Greenbrier RD had a increase in adult male moth captures along the Virginia border. When combined with additional information from Virginia Agriculture we may see if this is a threat to the Greenbrier RD.

This fall we intend to scout areas of high adult male moth captures for other life stages. The higher moth captures on the Cheat and Potomac could indicate that a breeding population may have been established, but this must be confirmed with the presence of egg masses.

If you have any further questions or concerns about the presences of adult male moths or what additional steps will be taken on the Forest, they may be directed to myself or Robert Acciavatti at our Morgantown office.

Robert A. Silvester

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Forestry Technician
Forest Pest Management

Robert E. Acciavatti

ROBERT E. ACCIAVATTI
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Forest Pest Management

TABLE 1
1987 Gypsy Moth Monitoring Project
Monongahela National Forest
Northeastern Forest Experiment Station, USDA Forest Service
Cheat Ranger District

Summary of Moth Catches / Opportunity Areas Sampled

Opportunity Areas					
ID Number	Name	NF Acres	Total Traps	Total Moths	Total Moths (1986)
13.001	Horseshoe	3306	9	133	48
13.002	Leadmine	3287	5	47	13
13.003	Limestone	6177	5	43	12
13.004	Location	5025	5	56	13
13.005	Backbone Mountain	5020	8	92	26
13.006	Lower Clover Run	5090	12	104	59
13.007	Indian Run	4731	10	61	25
13.008	Pheasant Mountain	3977	3	20	21
13.010	Clifton Run	3268	8	36	6
13.011	Bear Heaven	4359	9	25	5
15.001	Otter Creek Wilderness	20000	1	7	0
16.101	Laurel Run	7808	7	34	12
16.102	Olson	3464	3	86	1
16.103	Mozark Mountain	6430	6	94	22
16.104	McGowan Mountain	4987	3	26	5
16.105	Rattlesnake Run	5128	6	36	5
16.106	Lower Glady	6278	4	48	15
18.001	Fernow	4827	1	1	2

TABLE 2
1987 Gypsy Moth Monitoring Project
Monongahela National Forest
Northeastern Forest Experiment Station, USDA Forest Service
Gauley Ranger District

Summary of Moth Catches / Opportunity Areas Sampled

Opportunity Areas					
ID Number	Name	NF Acres	Total Traps	Total Moths	Total Moths (1986)
22.001	Snakeden Mountain	4062	1	0	0
22.002	Little Fork	3587	1	0	0
23.002	Sawyer Run	4579	1	0	0
23.004	Perry Ridge	4782	3	0	1
23.005	Holcomb	5670	1	0	0
23.006	Cherry River	4567	1	0	0
23.007	Briery Knob	7707	2	0	0
23.009	Spruce Mountain	4567	1	0	0
23.010	Bear Run	3204	2	0	0
25.001	Cranberry Wilderness	35864	1	0	0
26.102	Adkins Branch	5509	1	0	0
26.103	Red Oak North	5450	1	0	0
26.104	Red Oak South	3778	3	0	0
26.106	Desert Branch	3311	1	0	0
26.107	Summit Lake	7136	2	0	0
26.109	Frosty Gap	4958	1	0	0
26.111	Round Mountain	1272	1	0	0
26.201	Turkey Mountain	5000	1	0	0

TABLE 3
1987 Gypsy Moth Monitoring Project
Monongahela National Forest
Northeastern Forest Experiment Station, USDA Forest Service
Greenbrier Ranger District

Summary of Moth Catches / Opportunity Areas Sampled

Opportunity Areas					
ID Number	Name	NF Acres	Total Traps	Total Moths	Total Moths (1986)
33.003	Hoe Lick	1880	2	0	0
33.005	Ward Run	4649	12	2	5
33.006	Burner Settlement	3117	9	0	0
36.105	Suter Run	5688	3	1	0
36.106	Chestnut Ridge	7426	9	0	1
36.107	Crouch Run	5222	5	1	-
36.113	Stonecoal	4858	5	1	0
36.114	Mountain Lick	6273	5	0	0
36.115	Burner Mountain	6012	8	4	0
36.116	Smoke Camp	8160	19	25	6
36.117	Frank Mountain	6146	10	8	4
36.120	Saulsberry Run	4307	8	2	0
36.123	Sutton Run	3965	1	0	0
36.124	Galford	6758	1	0	3
36.202	East Fork Greenbrier	7637	4	4	2
36.203	Little Mountain	10407	3	0	0

TABLE 4
1987 Gypsy Moth Monitoring Project
Monongahela National Forest
Northeastern Forest Experiment Station, USDA Forest Service
Marlinton Ranger District

Summary of Moth Catches / Opportunity Areas Sampled

Opportunity Areas					
ID Number	Name	NF Acres	Total Traps	Total Moths	Total Moths (1986)
43.006	Williams River East	4932	1	0	0
43.007	Williams River West	6895	2	0	0
46.106	Shock Run	7950	1	0	0
46.107	Paddy Knob	4426	3	0	0
46.108	Knapp Creek	6548	2	0	0
46.109	Marlin Mountain West	5863	2	0	0
46.110	Marlin Mountain East	3579	1	0	0
46.111	Cloverlick Mountain	4707	2	0	0
46.112	Highland Scenic Highway	3448	1	0	0
46.114	Stillwell	4697	2	0	0
46.115	Rimel	3952	1	0	0
46.117	Brushy Mountain	5819	1	1	0
46.118	Douthat Creek	6797	1	0	1
46.119	High Top	2168	1	0	0
46.201	Tea Creek Mountain	5358	1	0	0

TABLE 5
1987 Gypsy Moth Monitoring Project
Monongahela National Forest
Northeastern Forest Experiment Station, USDA Forest Service
Potomac Ranger District

Summary of Moth Catches / Opportunity Areas Sampled

Opportunity Areas					
ID Number	Name	NF Acres	Total Traps	Total Moths	Total Moths (1986)
52.001	Timber Ridge	1789	3	31	21
53.002	Smith Mountain	3945	2	21	20
53.007	Bland Hills	3618	6	34	41
53.011	Sawmill Branch	3192	6	41	25
53.012	Big Mountain	9592	11	46	12
56.101	Star Run	7649	8	84	60
56.103	High Ridge	4509	4	48	28
56.104	North Fork Slope	4586	12	85	104
56.105	Eagle Rock	4674	7	52	42
56.106	Briggs Run	10389	13	84	64
56.107	Grassy Mountain	8831	6	40	8
702	Seneca Rocks Visitor's Center	35	1	1	4
831	Dolly Sods Scenic Area	2470	5	81	62

TABLE 6
1987 Gypsy Moth Monitoring Project
Monongahela National Forest
Northeastern Forest Experiment Station, USDA Forest Service
White Sulphur Ranger District

Summary of Moth Catches / Opportunity Areas Sampled

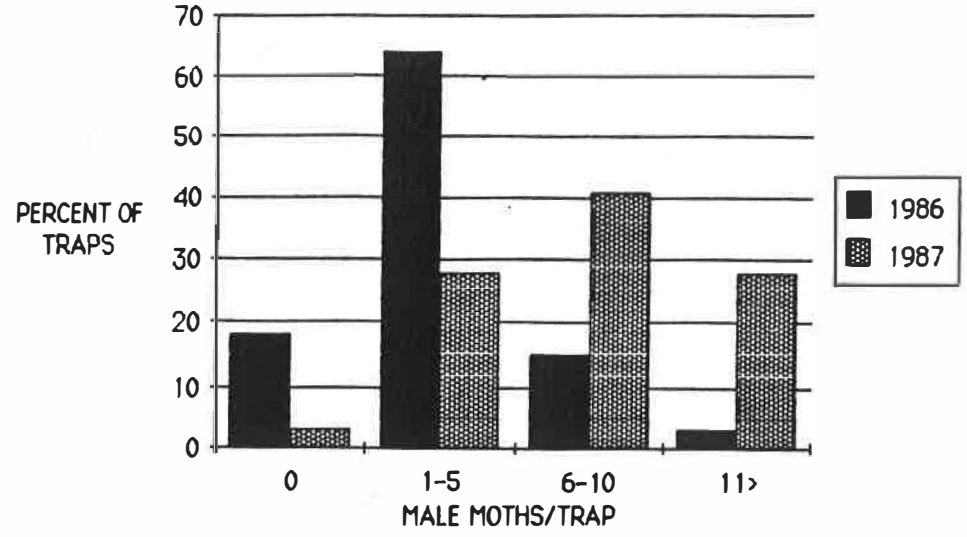
Opportunity Areas					
ID Number	Name	NF Acres	Total Traps	Total Moths	Total Moths (1986)
63.001	Peach Orchard	7731	2	0	0
63.002	White Draft	6200	1	0	0
66.101	Upper Beaverlick	8740	1	0	0
66.102	Upper Anthony	4234	1	0	0
66.104	Lower Middle Mountain	6418	2	0	0
66.106	Lower Meadow Creek	4442	1	0	0
66.108	Lower Beaverlick	5490	1	0	1
66.108	Hopkins Mountain	4822	6	0	0
66.204	Big Draft	8006	1	0	0
701	Sherwood Lake	24	9	0	0

TABLE 7
1987 Gypsy Moth Monitoring Project
Mononghela National Forest
Northeastern Forest Experiment Station, USDA Forest Service

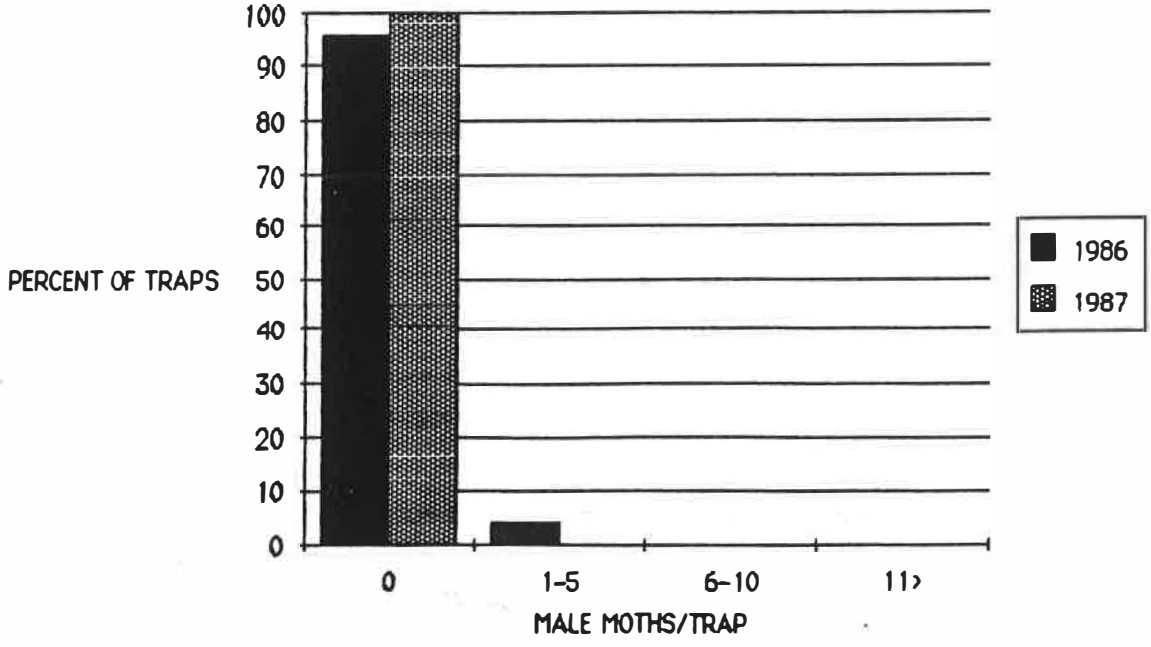
Summary of Moth Catches / Ranger District 1986 - 87

Ranger District	Total Traps 86--87	Total Moths 86--87	Number of Traps: 0 moths 86--87	1-5 moths 86--87	6-10 moths 86--87	11> moths 86--87
Cheat	95, 109	290, 942	17, 3	61, 31	14, 45	3, 30
Gauley	25, 25	1, 0	24, 25	1, 0	0, 0	0, 0
Greenbrier	80, 104	21, 48	66, 78	14, 25	0, 0	0, 1
Marlinton	23, 23	1, 1	22, 22	1, 1	0, 0	0, 0
Potomac	80, 84	491, 662	5, 0	32, 27	33, 33	10, 24
White Sulphur	22, 25	1, 0	21, 25	1, 0	0, 0	0, 0
National Forest Total	325, 370	805, 1653	155, 153	110, 83	47, 78	13, 55

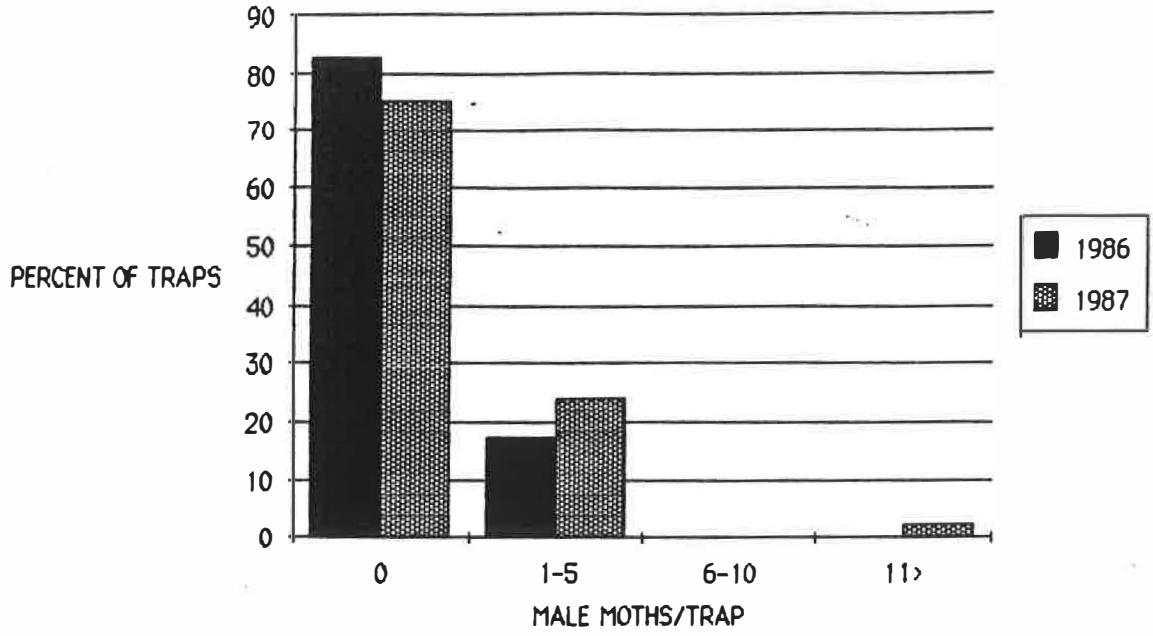
GYPSY MOTH TRAPPING-CHEAT RANGER DISTRICT



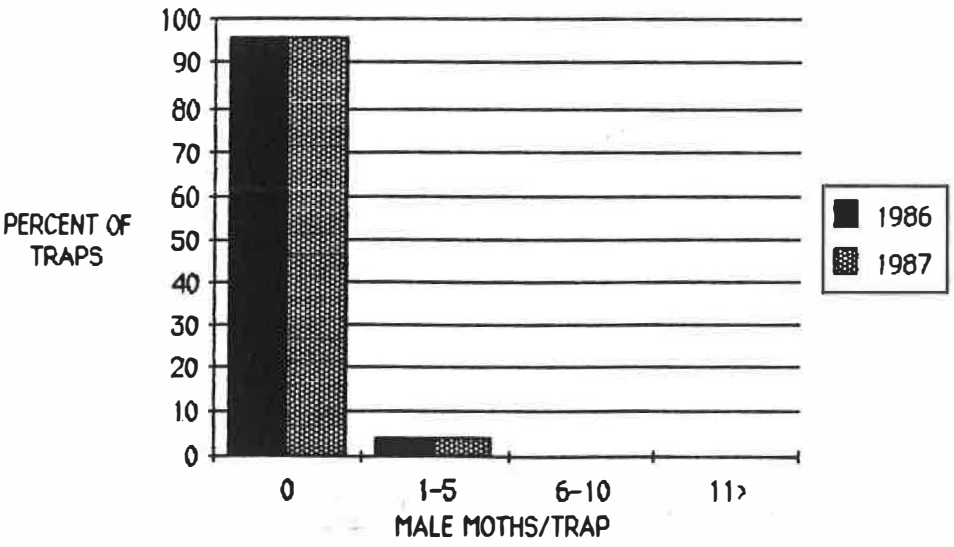
GYPSY MOTH TRAPPING-GAULEY RANGER DISTRICT



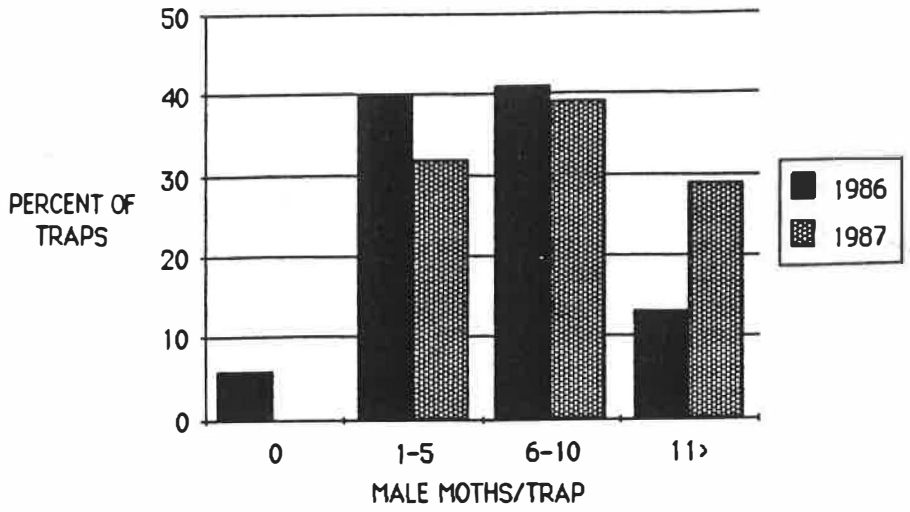
GYPSY MOTH TRAPPING-GREENBRIER RANGER DISTRICT



GYPSY MOTH TRAPPING-MARLINTON RANGER DISTRICT



GYPSY MOTH TRAPPING-POTOMAC RANGER DISTRICT



GYPSY MOTH TRAPPING-WHITE SULPHUR RANGER DISTRICT

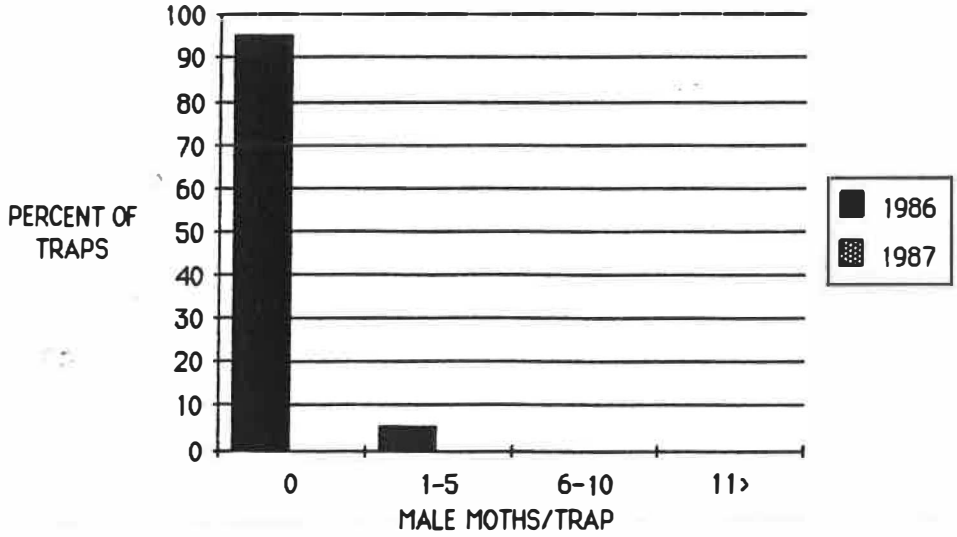
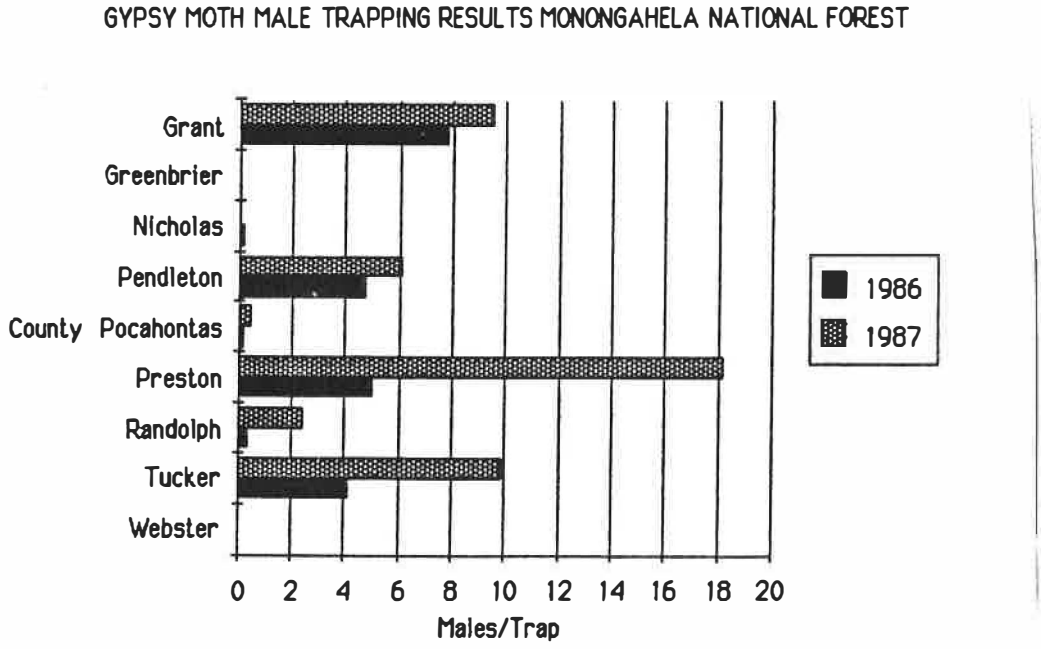
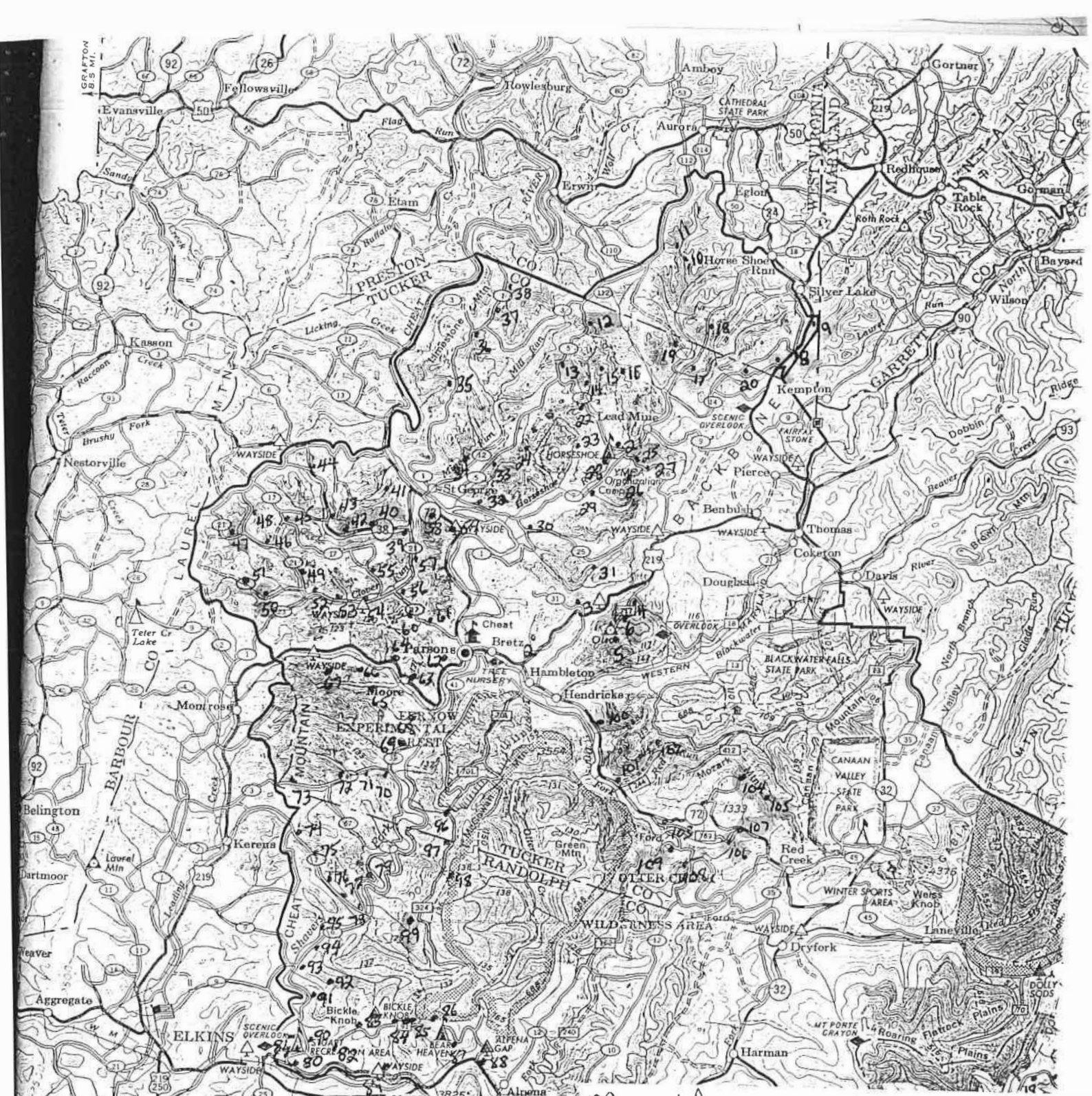


TABLE 8
1987 Gypsy Moth Monitoring Project
Mononghela National Forest
Northeastern Forest Experiment Station, USDA Forest Service

Summary of Moth Catches /. Counties Sampled 1986 - 87

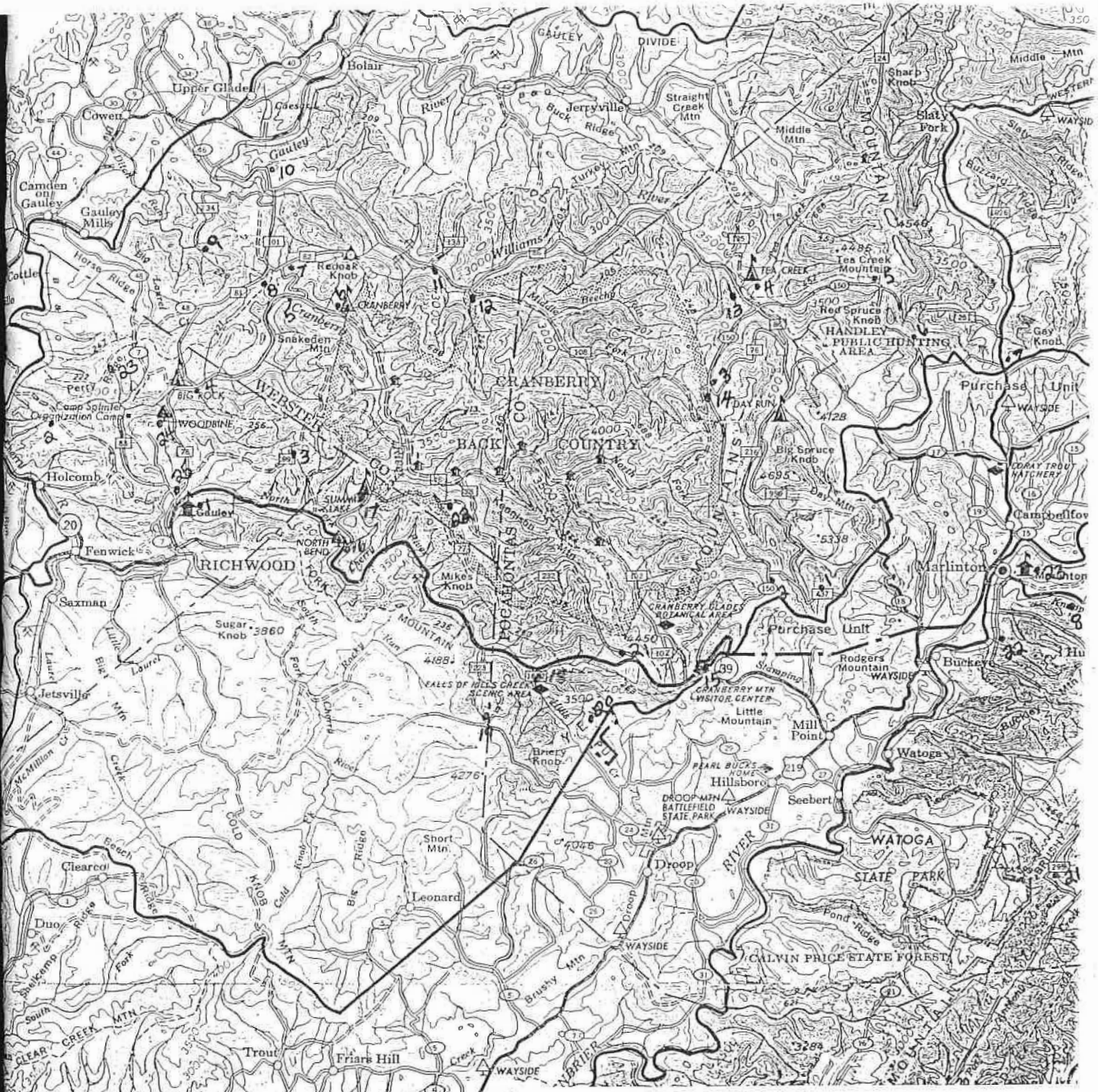
Counties	Total Traps 1987	1986	Total Moths 1987	1986
Grant	24	27	225	211
Greenbrier	28	27	0	1
Nicholas	7	6	0	1
Pendleton	55	53	336	256
Pocahontas	97	80	44	16
Preston	6	2	109	10
Randolph	52	56	127	21
Tucker	82	70	812	289
Webster	9	10	0	0





Map 1A
Cheat Ranger District
Monongahela National Forest
USDA - Forest Service - FPM
1987 Gypsy moth Monitoring
Legend (moth / trap)

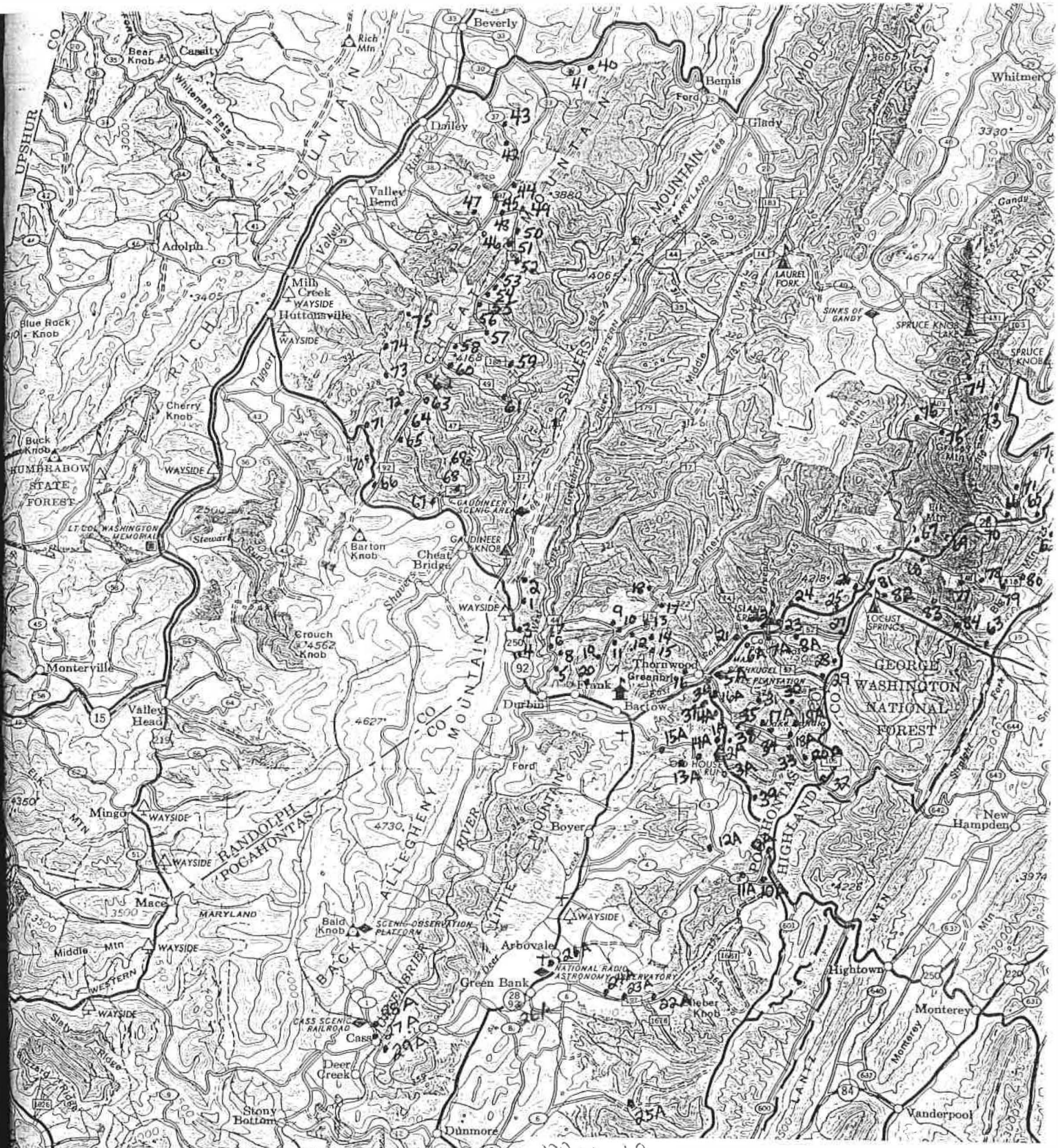
0 -
1-5 -
6-10 -



Map 13
Gauley Ranger District
Monongahela National Forest
1987 Gypsy Moth Monitoring
USDA - Forest Service, FPM

Legend (moth / Trap)

0 -
1-5 -
6-10
11 -



Map 1C

Greenbrier Ranger District

Monongahela National Forest

1987 Gypsy Moth Monitoring

USDA - Forest Service, FPM

Legend (Moth / Trap)

0 -

1 - 5

6 - 10

Map ID
Marlinton, Ranger District
Monongahela National Forest
1987 Gypsy moth monitoring
USDA - Forest Service, FPM

Legend (moth / trap)

0 -
1-5 -
6-10
11 -

Map 1E

Potomac Ranger District

Monongahela National Forest

1987 Gypsy Moth Monitoring

USDA- Forest Service, FPM

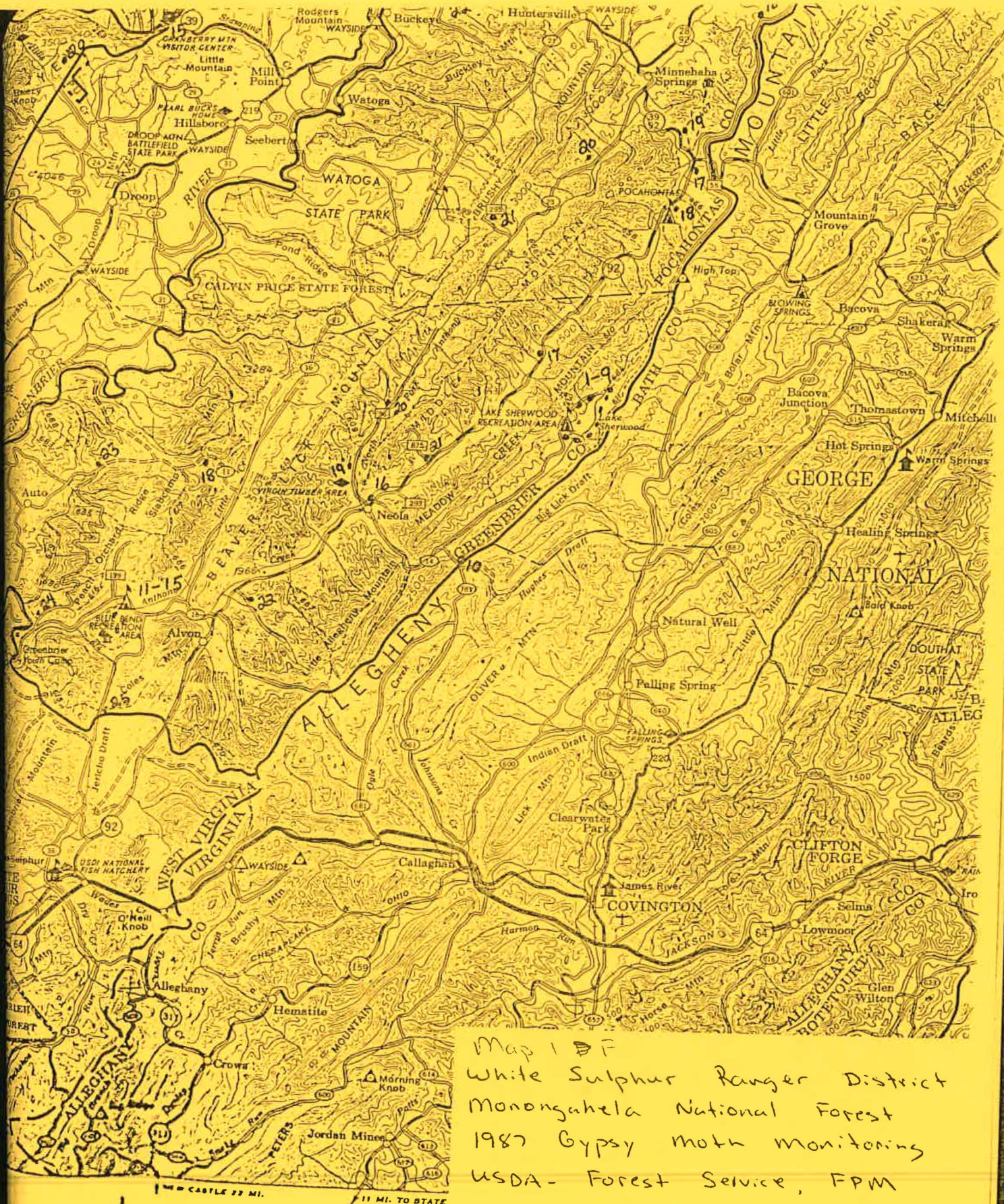
Legend (Moth / Trap)

0 -

1-5 -

6-10 -

11 -



Map 1 of 5

White Sulphur Ranger District

Monongahela National Forest

1987 Gypsy Moth Monitoring

USDA - Forest Service, FPM

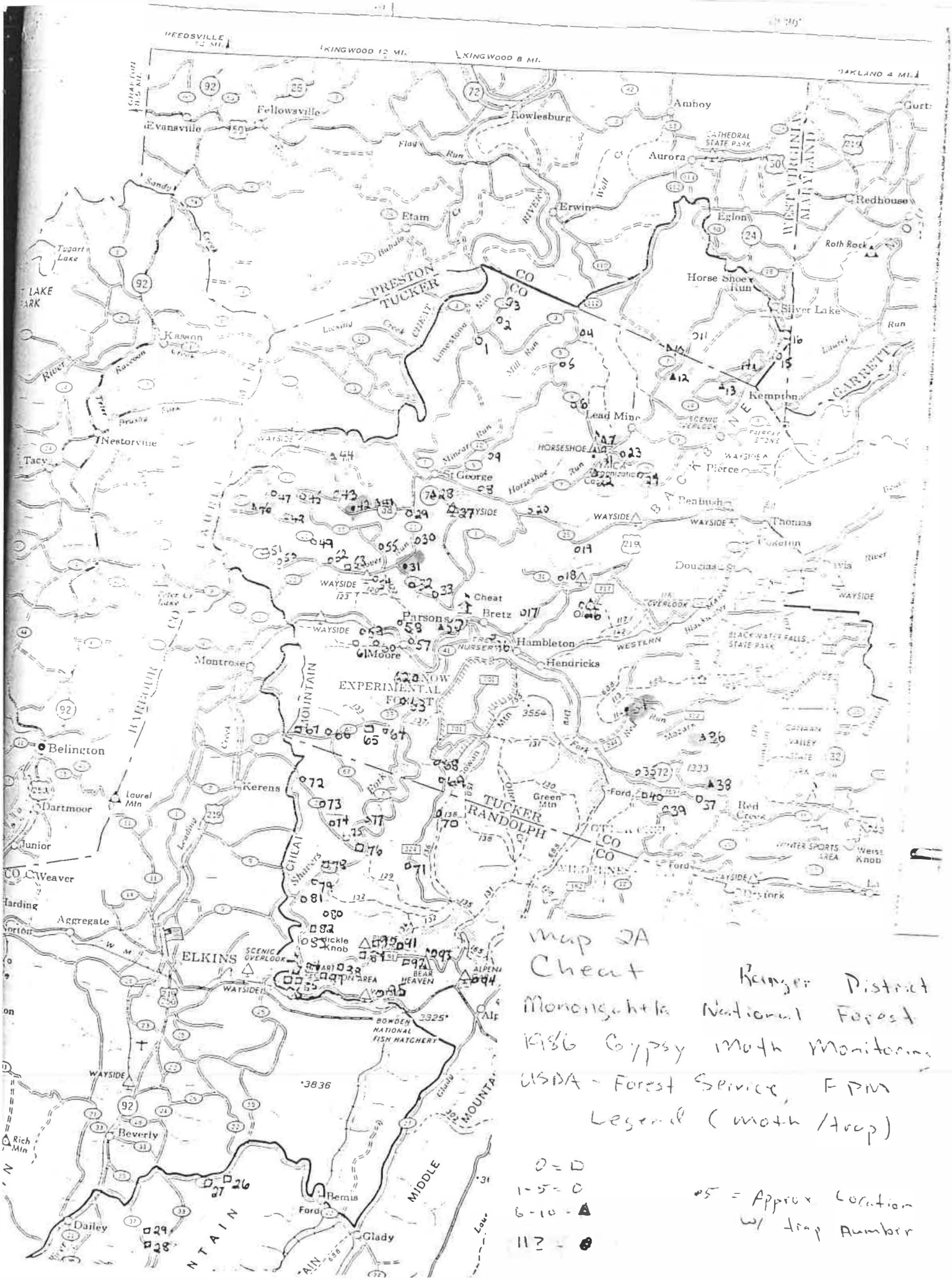
Legend (Moth / Trap)

0 -

1-5 -

6-10 -

11 + -



Map 2A

Cheat Ranger District

Monongahela National Forest

1986 Gypsy Moth Monitoring

USDA - Forest Service, FPM

Legend (moth/trap)

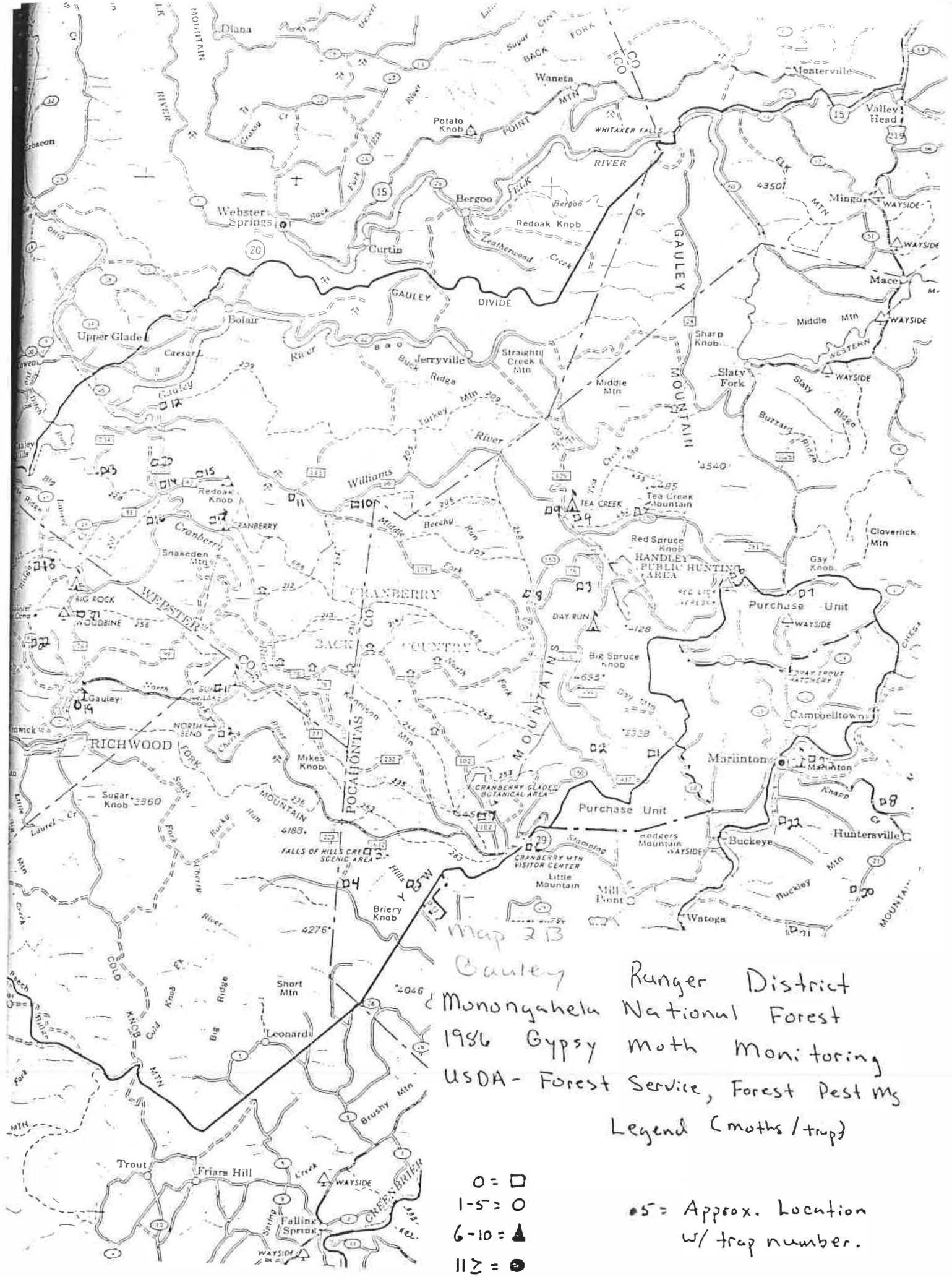
0 = D

1-5 = C

6-10 = A

11? = B

05 = Approx Location w/ trap Number



Map 23

Gauley Ranger District

Monongahela National Forest

1986 Gypsy moth Monitoring

USDA - Forest Service, Forest Pest Mgt

Legend (moths / trap)

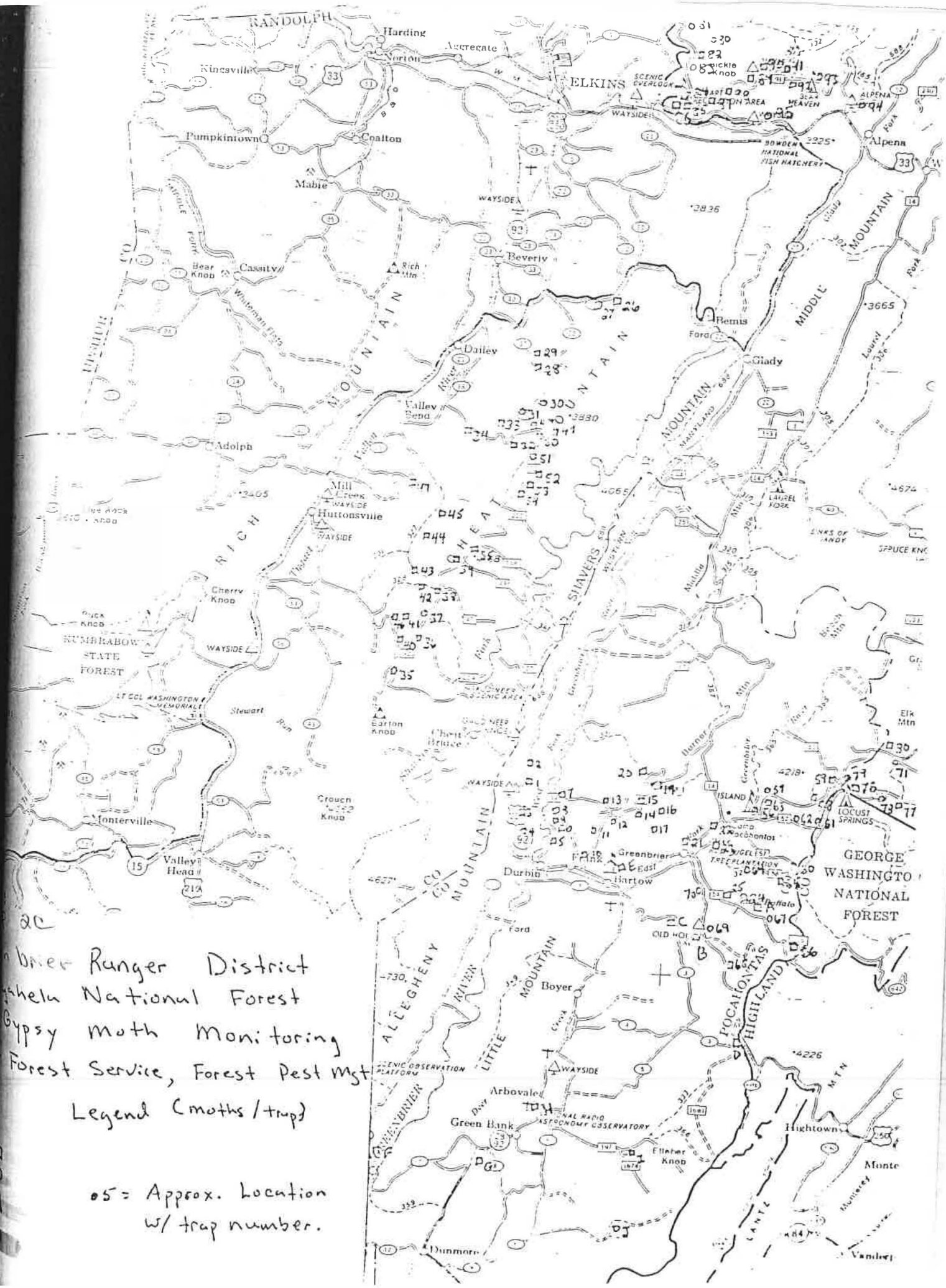
0 = □

1-5 = ○

6-10 = ▲

11≥ = ●

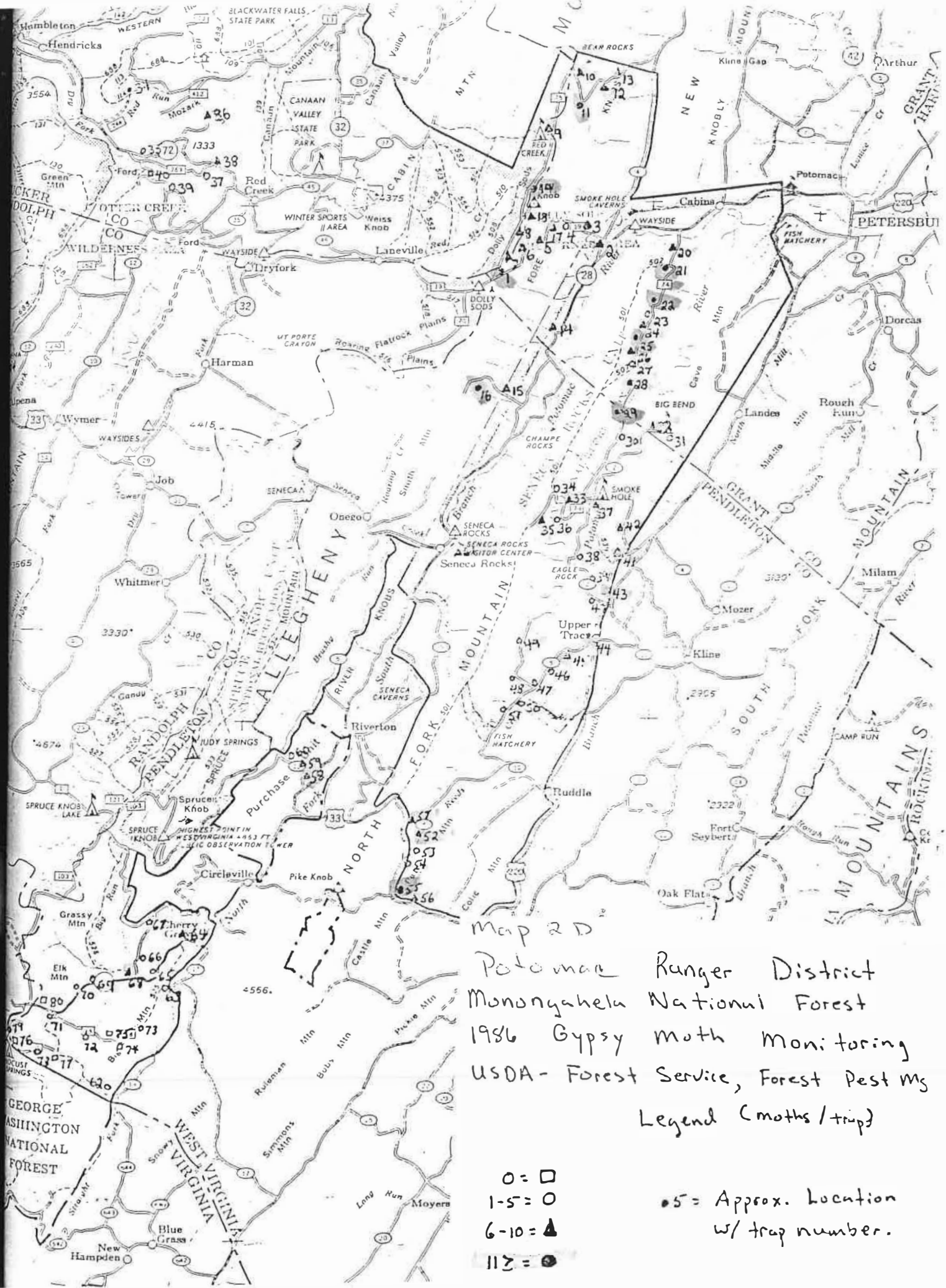
•5 = Approx. Location w/ trap number.



Brier Ranger District
Monongahela National Forest
Gypsy Moth Monitoring
Forest Service, Forest Pest Mgt

Legend (moths / trap)

05 = Approx. Location
w/ trap number.



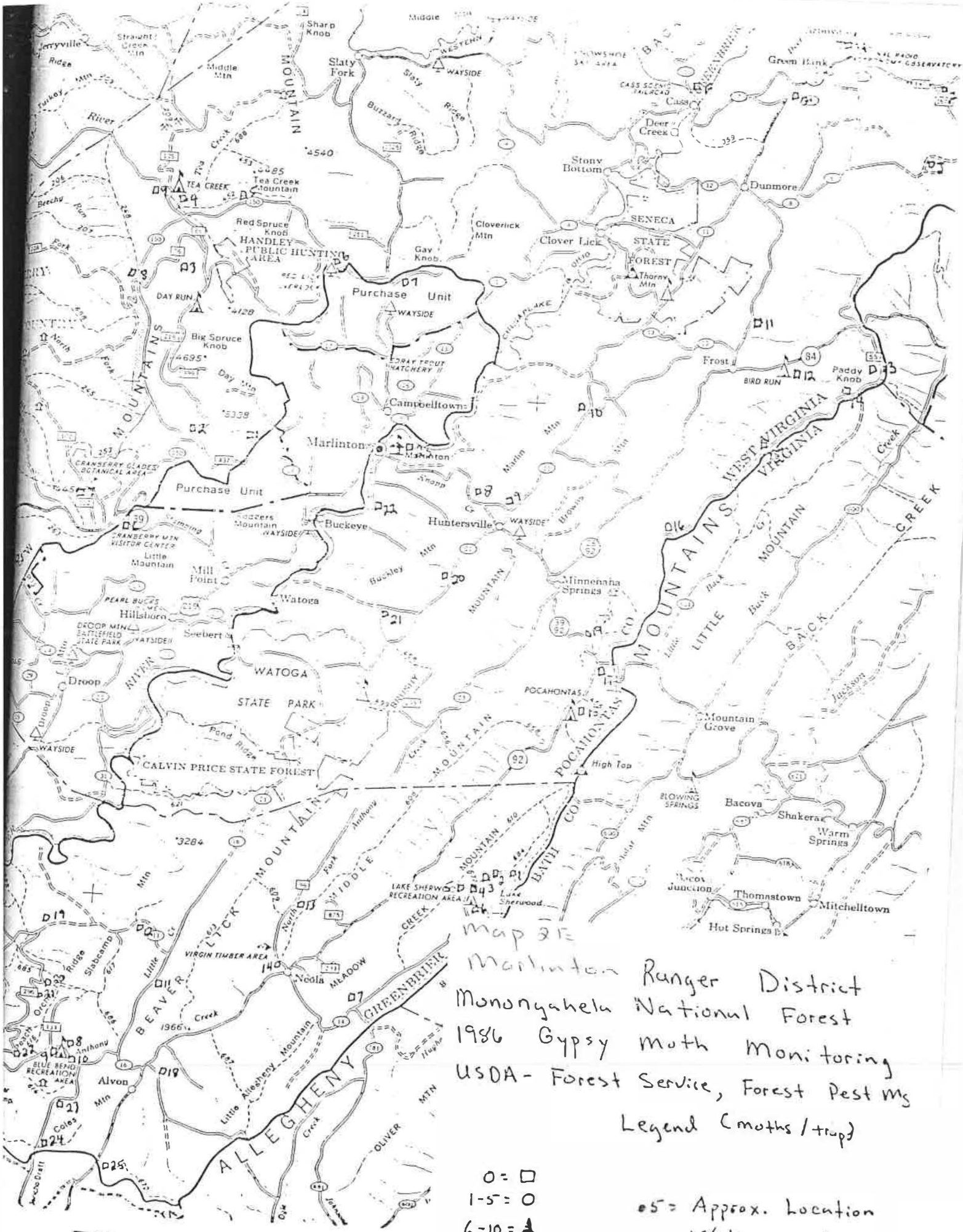
Map 2D

Potomac Ranger District
Monongahela National Forest
1986 Gypsy Moth Monitoring
USDA - Forest Service, Forest Pest Mgt

Legend (moths / trap)

0 = □
1-5 = ○
6-10 = ▲
11 ≥ ●

•5 = Approx. Location w/ trap number.



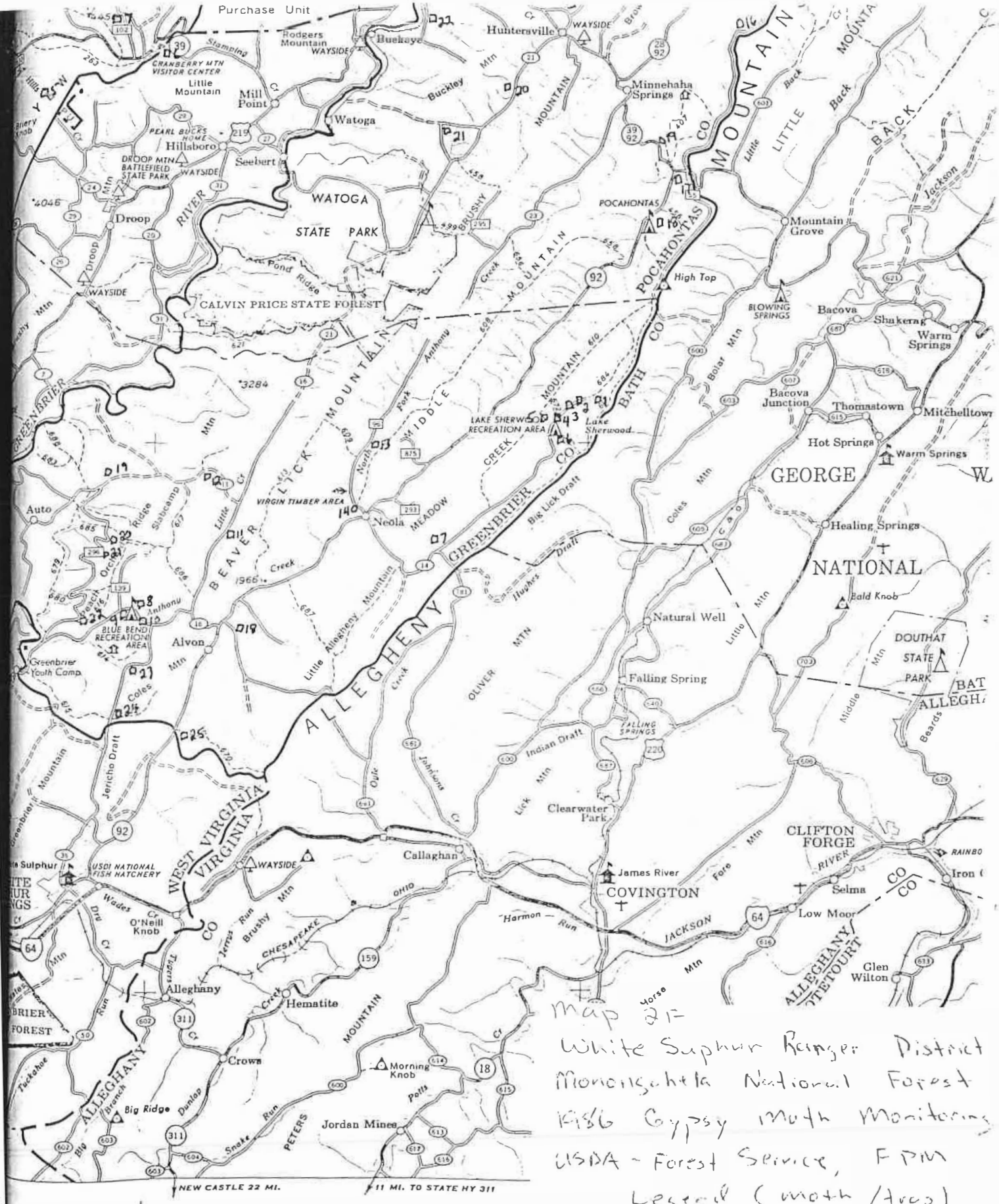
Map 21

Marlinton Ranger District
Monongahela National Forest
1986 Gypsy Moth Monitoring
USDA - Forest Service, Forest Pest Mgt

Legend (moths / trap)

0 = □
1-5 = ○
6-10 = ◭
11≥ = ●

•5 = Approx. Location w/ trap number.



map #2 -

White Sulphur Ranger District
Monongahela National Forest
FY86 Gypsy moth Monitoring
USDA - Forest Service, FPM
Legend (moth/trap)

0 = ○

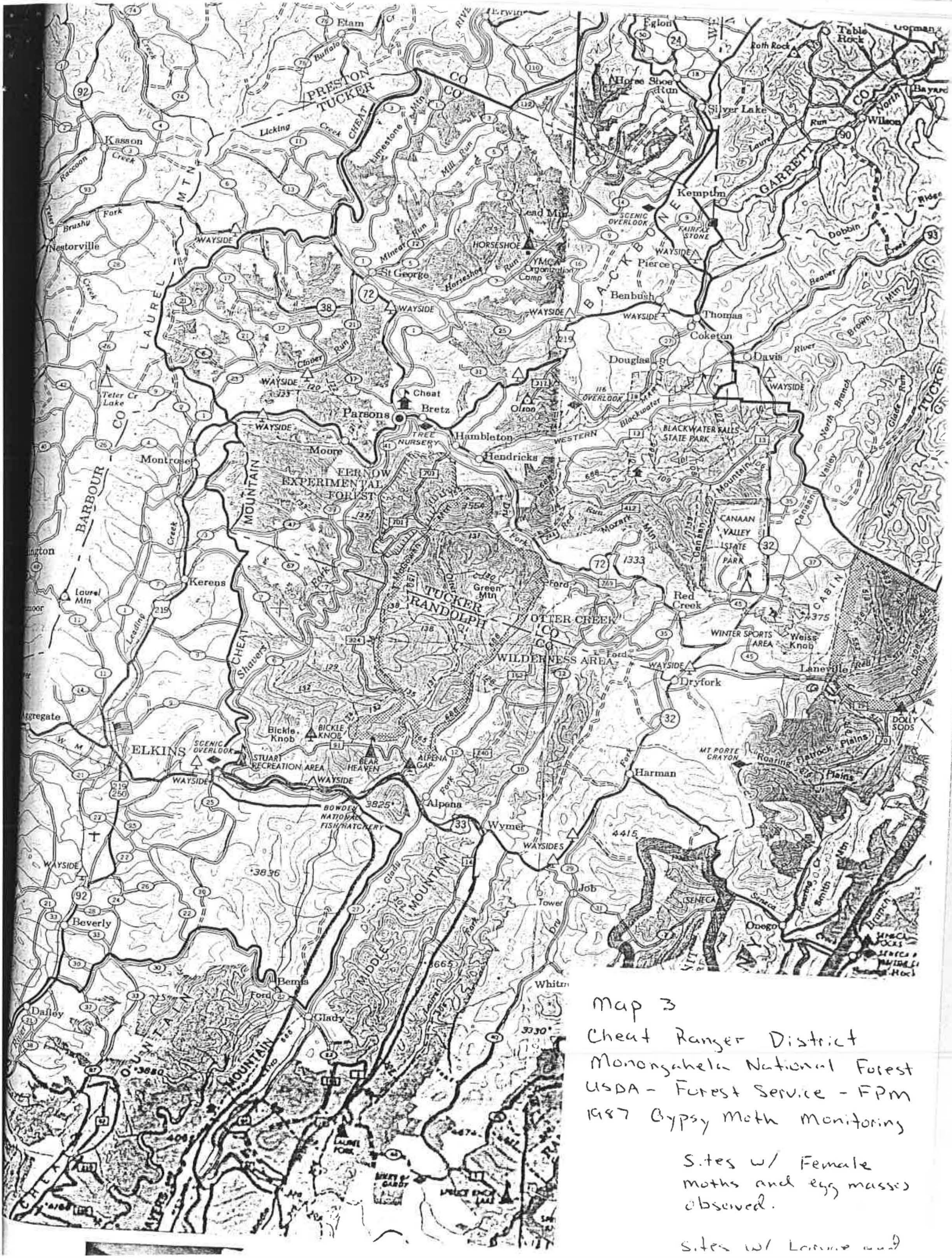
1-5 = ○

6-10 = ▲

11? = ●

#5 = Approx Location w/ trap number

B 15' Longitu



Map 3
Cheat Ranger District
Monongahela National Forest
USDA - Forest Service - FPM
1987 Gypsy Moth Monitoring

Sites w/ Female moths and egg masses observed.

Sites w/ Larvae and

Map 4
Potomac Ranger District
Monongahela National Forest
USDA - Forest Service - FPM
1987 Gypsy moth monitoring
Sites w/ Female moth + egg masses observed
Sites w/ Larvae and